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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

PEREZ, JULIO R

ART UNIT	PAPER NUMBER
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2617

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/018,313	Applicant(s) VANTTINEN ET AL.	
	Examiner Julio R. Perez	Art Unit 2681	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 66-100 and 102-133 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 66-100 and 102-133 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input checked="" type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. <u>03/15/06</u> |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claim 66 is objected to because of the following informalities: on line 8, "." should be ";" after the word entity. Appropriate correction is required.
2. Claim 81 is objected to because of the following informalities: on line 2, "the communication network" should be "the network". Appropriate correction is required.
3. Claim 83 is objected to because of the following informalities: on line 1, delete "." after the word "claim". Appropriate correction is required.
4. Claim 84 is objected to because of the following informalities: on line 3, "the communication network" should be "the network". Appropriate correction is required.
5. Claim 86 is objected to because of the following informalities: on line 1, "as claiming" should be "as claimed"; on lines 2 and 3, "to a communication network" should be "to the network". Appropriate correction is required.
6. Claim 95 is objected to because of the following informalities: on line 2, "the request" should be "the requests". Appropriate correction is required.
7. Claim 108 is objected to because of the following informalities: on line 2, delete "]" after the word "thereto". Appropriate correction is required.
8. Claim 128 is objected to because of the following informalities: on line 2, "to the geographic location" should be "to the location". Appropriate correction is required.
9. Claim 130 is objected to because of the following informalities: on line 1, "which is a"" should be "which is in". Appropriate correction is required.

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10. Claim 133 is objected to because of the following informalities: on line 4, “,” should be deleted after “element”. Appropriate correction is required.

Claim Rejections - 35 USC § 112

11. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

12. Claim 66 recites the limitations “said second entity” and “said first entity” in lines 7 and 8 respectively. There is insufficient antecedent basis for these limitations in the claim.

Claim Rejections - 35 USC § 102

13. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

14. Claims 66-100, 102-133, are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's submission of prior art, Ludwig et al., WO 99/04582 (hereinafter Ludwig).
15. Regarding claim 130, 131, 132, and 133, Ludwig discloses a method (and apparatus) comprising: a first station (mobile device) which is in communication with at

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least one network element (GSM base station), [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5], said first station being arranged, in use, establish a connection with an element external to said network via said at least one network element [page 14, paragraphs 2-3], wherein one of said first station and said at least one network element is provided with a dedicated address for receiving a request from said external element as to the location of the first station, wherein any request received at said dedicated address is a position request [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claims 66 and 86, Ludwig discloses an entity (mobile device, D2) connectable to the network via said first station (GSM mobile station), said method comprising the steps of: defining an association between said entity and the first station [page 14, paragraphs 3], said association comprising information identifying said entity and information identifying said first station [page 14, paragraphs 3-4]; determining the location of said entity and based on said association, the mobile station may correspond to the entity or the first station [page 14, paragraphs 3-4].

Regarding claim 67, Ludwig discloses storing association between the entity and the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 68, Ludwig discloses the association is stored in a store external to said network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

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Regarding claim 69, Ludwig discloses, wherein said store is arranged to store information identifying said network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 70, Ludwig discloses the entity requesting identifying information from the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 71, Ludwig discloses the entity sending information identifying said first station to said store [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 72, Ludwig discloses the first entity sends information identifying the entity to the store [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 73, Ludwig discloses said network is a wireless network [Fig. 9].

Regarding claim 74, Ludwig discloses said network is a cellular network [Fig. 9].

Regarding claim 75, Ludwig discloses said first station is a mobile terminal [page 14, paragraphs 2; Figure 3].

Regarding claim 76, Ludwig discloses said information identifying said mobile terminal is one or more of its MSISDN and its PDP address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 77, Ludwig discloses said entity is an IP entity [page 14, paragraphs 2-3; Figure 3].

Regarding claim 78, Ludwig discloses said information identifying said IP entity is an IP address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 79, Ludwig discloses said entity is a portable computer [page 14, paragraphs 2-3; Figure 3].

Regarding claim 80, Ludwig discloses authentication procedure is performed between the entity and the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 81, Ludwig discloses an authentication procedure is performed between the entity and the network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 82, Ludwig discloses said entity is arranged to request an IP address and said network allocates an address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 83, Ludwig discloses the entity is arranged to establish a connection with an IP location service provider and to provide the IP location service provider with the information identifying the entity and the information identifying the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 84, Ludwig discloses the information identifying the entity and the information identifying the first station is provided to an IP location server via the network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 85, Ludwig discloses the entity is provided with information relating to the identity of the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 87, Ludwig discloses an entity which is arranged to store information relating to the location of said first station (mobile device, D2), at least one network element (mobile station) being provided between the first station and said entity (base station), said entity being arranged to receive requests relating to the location of said first station from a requester external (the Internet server) to said network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 88, Ludwig discloses an entity has interface with an external element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 89, Ludwig discloses, wherein said external element is a communications element, which permits the entity to communicate to outside said network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 90, Ludwig discloses, wherein said external element is the Internet [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figure 1].

Regarding claim 91, Ludwig discloses, wherein said requester communicates with said external element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 92, Ludwig discloses, wherein a plurality of networks are provided, said networks being arranged to communicate via said external element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6].

Regarding claim 93, Ludwig discloses, wherein said entity is arranged to store information defining in which network said first station is in [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6].

Regarding claim 94, Ludwig discloses, wherein each of said networks comprises an entity [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 95, Ludwig discloses, where said entity is arranged to forward the requests to a respective network element in accordance with the information stored in said entity [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6].

Regarding claim 96, Ludwig discloses, when said network element is a GMLC [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6: Figure 2].

Regarding claim 97, Ludwig discloses, wherein said network element is arranged to direct a response back to said requester [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6].

Regarding claim 98, Ludwig discloses, wherein if said first station is in a different network, the request from the requester is forwarded by the entity to the network in which the first station is located [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 99, Ludwig discloses, wherein said request carried via the same means as user information from the external element to the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 100, Ludwig discloses, wherein a transmission plane is provided between said first station and said external element, said request and user information being sent to the first station via the transmission plane [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 102, Ludwig discloses, wherein information on the location of the first station is provided to said external network via said dedicated address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 103, Ludwig discloses, said dedicated address is a dedicated port within a user address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 104, Ludwig discloses, user information is received by and/or transmitted from a location in one of said first station and said at least one network element which is different to the dedicated address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 105, Ludwig discloses, first station is allocated an address, said address being unique to said first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 106, Ludwig discloses first station is allocated an address, said address being reallocated to different first stations when no longer required by said first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 107, Ludwig discloses said address is allocated by said at least one network element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 108, Ludwig discloses said dedicated address is located in said first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 109, Ludwig discloses at least one network element is transparent to information sent between said first station and said external element network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 110, Ludwig discloses first station is arranged to obtain information as to its position in response to a request received at its dedicated address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 111, Ludwig discloses the first station is arranged to calculate the position of the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 112, Ludwig discloses the first station receives information as to its position [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 113, Ludwig discloses said request from the external network includes information identifying the first station and the dedicated address [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 114, Ludwig discloses at least one network element is arranged to check requests from the external network to the first station and if a request identifies the dedicated address, to initiate a procedure for providing information to the external network relating to the position of the first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 115, Ludwig discloses the dedicated address is in said at least one network element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 116, Ludwig discloses the at least one network element is arranged to obtain information identifying said first station in response to a request for the position from said external element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 117, Ludwig discloses the information is the dialing number of said first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 118, Ludwig discloses the information identifying the first station is forwarded to a further network element, said further network element being arranged to provide information on the position of the first station identified by said information [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 119, Ludwig discloses the position information is provided to the external element by said further network element directly or via said at least one network element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 120, Ludwig discloses the information identifying said first station is sent to the external network element, said external element sending a further request to a further network element including said identifying information requesting information on the position of first station, said information being forwarded to said external element [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 121, Ludwig discloses at least one network element obtains said information on the identity of the first station from a register [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 122, Ludwig discloses first station comprises a mobile station [page 14, paragraphs 2; Figure 3].

Regarding claim 123, Ludwig discloses said network is GPRS network [page 11, paragraph 3].

Regarding claim 124, Ludwig discloses at least one network element is a GGSN [page 11, paragraph 3].

Regarding claim 125, Ludwig discloses further network element is a GMLC [page 11, paragraph 3].

Regarding claim 126, Ludwig discloses said external element is connected to said network via the internet [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5].

Regarding claim 127, Ludwig discloses the network is a packet data network [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6].

Regarding claim 128, Ludwig discloses the request relates to the location of said first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6].

Regarding claim 129, Ludwig discloses the request causes a geographic positioning procedure to be started by said first station [page 14, paragraphs 2-3; page 15, paragraphs 1-4- page 16, paragraphs 1-5; Figures 1-6].

Response to Arguments

15. Applicant's arguments with respect to claims 66-100, 102-133, have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio R. Perez whose telephone number is (571) 272-7846. The examiner can normally be reached on 7:00 - 4:00 PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272- 4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Julio R Perez
Examiner
Art Unit 2681


03/10/06


JOSEPH FEILD
SUPERVISORY PATENT EXAMINER